Optics Communications 86 (1991) 556–564
North-Holland

OPTICS
COMMUNICATIONS

Author Index to Volume 86

Aaviksoo, J., see I. Reimand 86 (1991) 142
Abdelghani-Idrissi, A., C. Ozkul, N. Wolffer, P. Gravey and G. Picoli, Resonant behaviour of the temporal response of the two-wave mixing in photorefractive InP:Fe crystals under dc fields 86 (1991) 317
Ackerson, B.J., see A.H. Chowdhury 86 (1991) 547
Afzal, R.S. and N.M. Lawandy, Transverse beam reshaping and beam encoding by two-beam coupling in ruby 86 (1991) 307
Agarwal, G.S., see G. Bhanu Prasad 86 (1991) 409
Alda, J., see S. Wang 86 (1991) 401
Aminoff, C.G., S. Essabaa, I. Brissaud and J. Arianer, A high power lamp-pumped LNA laser with thermally tuned etalon 86 (1991) 99
Anderson, E., see C. Jacobsen 86 (1991) 351
André, J.-M., see A. Sammar 86 (1991) 245
Arianer, J., see C.G. Aminoff 86 (1991) 99

Bakker, H.J., J.T.M. Kennis, H.J. Kop and A. Lagendijk, Generation of intense picosecond pulses tunable between 1.2 and 8.7 μm 86 (1991) 58
Bastiaans, M.J., Gabor's signal expansion applied to partially coherent light 86 (1991) 14
Becker, P.C., see C.H. Brito Cruz 86 (1991) 65
Bell, M.J.V., see S.C. Zilio 86 (1991) 81
Benicewicz, P.K., J.P. Roberts and A.J. Taylor, The absorption characteristics and recovery dynamics of the tricarbocyanine dye DTP 86 (1991) 393
Bennett, R.G.T., see Z. Li 86 (1991) 51
Bergner, H., K. Hempel and U. Stamm, Picosecond excite and probe optical beam induced current method for investigation of high speed integrated circuits 86 (1991) 135
Bernabeu, E., see S. Wang 86 (1991) 401
Bernet, S., see A. Rebane 86 (1991) 7
Betin, A.A., K.V. Ergakov and O.V. Mitropol'sky, The possibility of unidirectional generation in a ring laser without nonreciprocal elements 86 (1991) 491
Bhanu Prasad, G. and G.S. Agarwal, Light amplification by coherence effects – a double resonance model for lasers without inversion 86 (1991) 409
Billhardt, F., see G. Korn 86 (1991) 277
Boardman, A.D., M.M. Shabat and R.F. Wallis, Nonlinear surface magnetoplasmon waves on a semiconductor 86 (1991) 416
Bonang, C.C. and S.M. Cameron, Intracavity resonance hyper-Raman scattering with a synchronously pumped mode-locked dye laser 86 (1991) 504
Brissaud, I., see C.G. Aminoff 86 (1991) 99
Brito Cruz, C.H., A.G. Prosser and P.C. Becker, Generation of tunable femtosecond pulses in the 690–750 nm wavelength region 86 (1991) 65
Browne, M.T., see C. Jacobsen 86 (1991) 351
Buckley, C.J., see C. Jacobsen 86 (1991) 351

Cai, J., see M. Wu 86 (1991) 454
Cameron, S.M., see C.C. Bonang 86 (1991) 504
Carter, J.N., see R.G. Smart 86 (1991) 333
Carter, S.F., see R.G. Smart 86 (1991) 333
Cartwright, C.M., see Z.Q. Wang 86 (1991) 19
Cartwright, C.M., see C. Soutar 86 (1991) 255
Caulfield, H.J., Q. Huang and J. Shamir, Wide field of view transmission holography 86 (1991) 487
Chandler, P.J., see S.J. Field 86 (1991) 161
Chen, K., see W. Du 86 (1991) 428
Cheng, B., Z. Li, Y. Yang, J. Zhu and D. Zhang, Collisional pooling of metastable Zn atoms 86 (1991) 465
Chin, G., see M. Wu 86 (1991) 454
Chowdhury, A.H., F.K. Wood and B.J. Ackerson, Transverse radiation pressure forces for finite sized colloidal particles 86 (1991) 547
Christodoulides, D.N., Fast and slow Raman shock-wave domains in nonlinear media 86 (1991) 431
Chung, Y.B., I.W. Lee and D.-J. Jang, Ultrafast lattice vibrational relaxation of optically excited F-centers in RbCl at 4.2 K 86 (1991) 41
Cocorullo, G., F. Della Corte, I. Rendina and A. Cutolo, New possibilities for efficient silicon integrated electro-optical modulators 86 (1991) 228
Cutolo, A., see G. Cocorullo 86 (1991) 228

Dattoli, G., L. Giannessi, L. Mezi and A. Torre, Towards a generalized version of the Madey's theorem 86 (1991) 289
Davey, S.T., see R.G. Smart 86 (1991) 333
De Bruijn, H.E., A.T.M. Lenferink, R.P.H. Kooyman and J. Greve, A dielectric/metal layer system as chemical sensor 86 (1991) 444
Deleva, A., see M. Nenchev 86 (1991) 405
Della Corte, F., see G. Cocorullo 86 (1991) 228
Dement'ev, A.I., see A.V. Zaitsevskii 86 (1991) 461
Deutsch, I.H. and J.C. Garrison, Quantum spatial propagation of squeezed light in a degenerate parametric amplifier 86 (1991) 311
Doss, H.M., see L.M. Narducci 86 (1991) 324
Dos Santos, P.A.M., see S.G. Faria 86 (1991) 29
Dowling, J.P., A quantum state of ultra-low phase noise 86 (1991) 119
Du, W., X. Zhang, K. Chen, Z. Lu, Y. Zheng and J. Wu, Multiple forward phase conjugate waves by degenerate four-wave-mixing in Langmuir–Blodgett films with BOXCARS geometry 86 (1991) 428
Duncan, M.D., R. Mahon, L.L. Tankersley and J. Reintjes, Second Stokes generation in deuterium and hydrogen 86 (1991) 538

Eason, R.W., see G. Hussain 86 (1991) 106
Ekert, A.K., see G.M. Palma 86 (1991) 192
Ergakov, K.V., see A.A. Betin 86 (1991) 491
Essabaa, S., see C.G. Aminoff 86 (1991) 99

Faria, S.G., A.A. Tagliaferri and P.A.M. dos Santos, Photorefractive optical holographic correlation using a $Bi_{12}TiO_{20}$ crystal at $\lambda = 0.633$ μm 86 (1991) 29

Feng, D., H. Zhao and S. Xia, Amplitude-modulated JTC for improving correlation discrimination 86 (1991) 260
Field, S.J., D.C. Hanna, A.C. Large, D.P. Shepherd, A.C. Tropper, P.J. Chandler, P.D. Townsend and L. Zhang, An efficient, diode-pumped, ion-implanted Nd:GGG planar waveguide laser 86 (1991) 161
Firth, W.J., see P.E. Langridge 86 (1991) 170
Förster, E., see P. Glas 86 (1991) 271
Freund, I., Image reconstruction through multiple scattering media 86 (1991) 216

Ganshin, V.A. and Yu.N. Korkishko, H:$LiNbO_3$ waveguides: effects of annealing 86 (1991) 523
Garrett, W.R., R.C. Hart, J.C. Miller, M.G. Payne and J.E. Wray, Large spectral shifts of stimulated hyper-Raman scattering: predictions and observations in Xe 86 (1991) 205
Garrison, J.C., see I.H. Deutsch 86 (1991) 311
Giannessi, L., see G. Dattoli 86 (1991) 289
Gillespie, W.A., see Z.Q. Wang 86 (1991) 19
Gillespie, W.A., see C. Soutar 86 (1991) 255
Gisin, N., Solutions of the dynamical equation for polarization dispersion 86 (1991) 371
Gizbrekht, A., see M. Nenchev 86 (1991) 405
Glas, P., M. Schnürer, E. Förster and I. Uschmann, X-ray microscopy of laser produced counterstreaming plasmas – investigation of population inversion in [He]-like Al 86 (1991) 271
Golub, I. and K. Strobl, Spatio-temporal analysis of a Nonlinear Sandwich's switching behavior 86 (1991) 93
Gondal, M.A., S. Shahdin, A.A. Shaban and M.S. Omar, First observation of a collisionally induced diffuse band of $^7Li_2$ around 452 nm 86 (1991) 128
Gorton, E.K. and A.M. Richmond, Phase conjugation in long pulse CO_2 lasers 86 (1991) 341
Gouveia, E.A., see S.C. Zilio 86 (1991) 81
Grant, R.S. and W. Sibbett, Cavity configurations for coupled-cavity mode locking 86 (1991) 177
Gravey, P., see A. Abdelghani-Idrissi 86 (1991) 317
Greve, J., see H.E. de Bruijn 86 (1991) 444
Grohs, J., H. Ißler and C. Klingshirn, Scaling law for the dynamics of induced absorptive optical nonlinearities 86 (1991) 183

Hache, F., see D. Ricard 86 (1991) 531
Haelterman, M., All-optical set-reset flip-flop operation in the nonlinear Fabry-Pérot interferometer 86 (1991) 189
Hanna, D.C., see S.J. Field 86 (1991) 161
Hanna, D.C., see R.G. Smart 86 (1991) 333
Hart, R.C., see W.R. Garrett 86 (1991) 205
He, X.H., see H.Y. Zhang 86 (1991) 509
Hempel, K., see H. Bergner 86 (1991) 135
Herlemont, F., see M. Khelkhal 86 (1991) 167
Heuer, W., see F. Raksi 86 (1991) 1
Holmes, A.S. and R.R.A. Syms, Switchable all-optical encoding and decoding using optical fibre lattices 86 (1991) 25
Hovde, D.C., J.H. Timmermans, G. Scoles and K.K. Lehmann, High power injection seeded optical parametric oscillator 86 (1991) 294
Huang, Q., see H.J. Caulfield 86 (1991) 487

Hussain, G. and R.W. Eason, Velocity filtering using complementary gratings in photorefractive BSO 86 (1991) 106

Ibragimov, E.A., see A. Stabinis 86 (1991) 301
Ilinykh, P.N., O.P. Nestiorkin and B.Ya. Zel'dovich, Nondegenerate photorefractive four-wave mixing without feedback in $Bi_{12}TiO_{20}$ 86 (1991) 75
Ishida, Y., see W. Xiang 86 (1991) 70
Ishigame, M., see K. Tanaka 86 (1991) 45
Ißler, H., see J. Grohs 86 (1991) 183

Jacobsen, C., S. Williams, E. Anderson, M.T. Browne, C.J. Buckley, D. Kern, J. Kirz, M. Rivers and X. Zhang, Diffraction-limited imaging in a scanning transmission X-ray microscopy 86 (1991) 351
Jang, D.-J., see Y.B. Chung 86 (1991) 41
Javanainen, J., Realistic laser cooling theory for multi-state atoms 86 (1991) 475
Jiang, W., see W. Xiang 86 (1991) 70
Joshi, A. and R.R. Puri, The transient fluorescence spectrum of a strongly driven two-atom Dicke model including dipole interaction in a squeezed vacuum 86 (1991) 469

Kaarli, R., R. Sarapuu, H. Sõnajalg and P. Saari, Interference of accumulated stimulated photon echoes and storage of temporal segments in time-and-space-domain holography 86 (1991) 211
Kalashnikov, M.P., see G. Korn 86 (1991) 277
Keitel, C.H., see L.M. Narducci 86 (1991) 324
Kennis, J.T.M., see H.J. Bakker 86 (1991) 58
Kern, D., see C. Jacobsen 86 (1991) 351
Khan, M.A. and E.E. Khawaja, Quasi-cw laser action through pulsed laser pumping of metastable states in dense vapors 86 (1991) 386
Khawaja, E.E., see M.A. Khan 86 (1991) 386
Khelkhal, M. and F. Herlemont, Guiding properties of infrared circular hollow waveguides for CO_2 lasers 86 (1991) 167
Kirz, J., see C. Jacobsen 86 (1991) 351
Klein, M.C., see D. Ricard 86 (1991) 531
Klingshirn, C., see J. Grohs 86 (1991) 183
Kooyman, R.P.H., see H.E. de Bruijn 86 (1991) 444
Kop, H.J., see H.J. Bakker 86 (1991) 58
Korkishko, Yu.N., see V.A. Ganshin 86 (1991) 523
Korn, G., F. Billhardt, M.P. Kalashnikov, P.V. Nickles and I. Will, Generation of subpicosecond pulses by feedback control and frequency tuning of an actively-passively mode-locked Nd-glass laser 86 (1991) 277

Lafortune, J.-F. and R. Vallée, Short length fiber Faraday rotator 86 (1991) 497
Lagendijk, A., see H.J. Bakker 86 (1991) 58
Langridge, P.E. and W.J. Firth, Doubly nonlinear fibre loop lasers 86 (1991) 170
Large, A.C., see S.J. Field 86 (1991) 161
Lawandy, N.M., see R.S. Afzal 86 (1991) 307
Lawless, J.L., see D. Lo 86 (1991) 151
Ledig, M., see G. Sargsjan 86 (1991) 480

Lee, I.W., see Y.B. Chung 86 (1991) 41
Lehmann, K.K., see D.C. Hovde 86 (1991) 294
Lenferink, A.T.M., see H.E. de Bruijn 86 (1991) 444
Leonardi, C., see G.M. Palma 86 (1991) 192
Li, Z., R.G.T. Bennett and G.E. Stedman, Swept-frequency induced optical cavity ringing 86 (1991) 51
Li, Z., see B. Cheng 86 (1991) 465
Lo, D. and J.L. Lawless, Fluorescence emissions of rare-gas–alkali ionic excimers in electrical discharges 86 (1991) 151
Lohmann, A.W., Image formation of dilute arrays for optical information processing 86 (1991) 365
Lu, Z., see W. Du 86 (1991) 428

Macpherson, M.J.D., see F. Schuller 86 (1991) 123
Mahon, R., see M.D. Duncan 86 (1991) 538
Malakyan, Yu.P., Photon statistics in N-harmonic generation under nonlinear optical balance 86 (1991) 423
Mandel, P., see N.P. Pettiaux 86 (1991) 88
McMorrow, D., Separation of nuclear and electronic contributions to femtosecond four-wave mixing data 86 (1991) 236
Meerson, B. and T. Tajima, A mesoscopic linear accelerator driven by super-intense subpicosecond laser pulses 86 (1991) 283
Meystre, P., see M. Wilkens 86 (1991) 34
Mezi, L., see G. Dattoli 86 (1991) 289
Miller, J.C., see W.R. Garrett 86 (1991) 205
Minkovski, N.I., see T.P. Mirtchev 86 (1991) 374
Mirtchev, T.P. and N.I. Minkovski, Parametrical study of dispersionless modulation gain in low birefringence fibers 86 (1991) 374
Miteva, M., see S. Zhivkova 86 (1991) 449
Mitropol'sky, O.V., see A.A. Betin 86 (1991) 491

Nakajima, K., see J. Ohtsubo 86 (1991) 265
Narducci, L.M., M.O. Scully, C.H. Keitel, S.-Y. Zhu and H.M. Doss, Physical origin of the gain in a four-level model of a Raman driven laser without inversion 86 (1991) 324
Nenchev, M., A. Deleva, E. Stoykova, Z. Peshev, T. Patrikov and A. Gizbrekht, Controlled time-delayed-pulses operation of a two-wavelength combined dye-Ti:Al_2O_3 laser 86 (1991) 405
Nestiorkin, O.P., see P.N. Ilinykh 86 (1991) 75
Nickles, P.V., see G. Korn 86 (1991) 277

Ogiwara, A., H. Sakai and J. Ohtsubo, Application of LCTV to nonlinear speckle correlator 86 (1991) 513
Ohtsubo, J. and K. Nakajima, Image recovery by simulated annealing with known Fourier modulus 86 (1991) 265
Ohtsubo, J., see A. Ogiwara 86 (1991) 513
Ohtsuka, Y., Periodic structures of optical mutual coherence function and effective spectal source for acoustically modulated optical fields 86 (1991) 437
Okuno, T., see K. Tanaka 86 (1991) 45
Omar, M.S., see M.A. Gondal 86 (1991) 128
Orszag, M., L. Roa and R. Ramírez, Squeezing and bifurcation in the phase probability distribution in a two-photon micromaser 86 (1991) 147

Ozkul, C., see A. Abdelghani-Idrissi 86 (1991) 317

Palma, G.M., A. Vaglica, C. Leonardi and A.K. Ekert, Squeezed triggering of superradiant beats 86 (1991) 192
Pardo, B., see A. Sammar 86 (1991) 245
Patrikov, T., see M. Nenchev 86 (1991) 405
Payne, M.G., see W.R. Garrett 86 (1991) 205
Penaforte, J.C., see S.C. Zilio 86 (1991) 81
Peshev, Z., see M. Nenchev 86 (1991) 405
Pettiaux, N.P. and P. Mandel, Co-existing attractors in two-photon absorptive optical bistability 86 (1991) 88
Piché, M., Beam reshaping and self-mode-locking in nonlinear laser resonators 86 (1991) 156
Picoli, G., see A. Abdelghani-Idrissi 86 (1991) 317
Prosser, A.G., see C.H. Brito Cruz 86 (1991) 65
Puri, R.R., see A. Joshi 86 (1991) 469

Raksi, F., W. Heuer and H. Zacharias, Single pulse pump-and-probe measurements and a new single pulse autocorrelator 86 (1991) 1
Ramírez, R., see M. Orszag 86 (1991) 147
Rebane, A., S. Bernet, A. Renn and U.P. Wild, Holography in frequency selective media: hologram phase and causality 86 (1991) 7
Refregier, Ph., Optical pattern recognition: optimal trade-off circular harmonic filters 86 (1991) 113
Reimand, I. and J. Aaviksoo, Surface polarization dynamics revealed by time-resolved resonant reflection of light 86 (1991) 142
Reintjes, J., see M.D. Duncan 86 (1991) 538
Rendina, I., see G. Cocorullo 86 (1991) 228
Renn, A., see A. Rebane 86 (1991) 7
Ricard, D., F. Hache and M.C. Klein, Some considerations on the size dependence of optical properties of solids and aggregates 86 (1991) 531
Richmond, A.M., see E.K. Gorton 86 (1991) 341
Rivers, M., see C. Jacobsen 86 (1991) 351
Roa, L., see M. Orszag 86 (1991) 147
Roberts, J.P., see P.K. Benicewicz 86 (1991) 393
Rossomakhin, I. and S. Stepanov, Linear adaptive interferometers via diffusion recording in cubic photorefractive crystals 86 (1991) 199

Saari, P., see R. Kaarli 86 (1991) 211
Sakai, H., see A. Ogiwara 86 (1991) 513
Salin, F. and J. Squier, Geometrical optimization of longitudinally pumped solid-state lasers 86 (1991) 397
Sammar, A., J.-M. André and B. Pardo, Diffraction and scattering by lamellar amplitude multilayer gratings in the X-UV region 86 (1991) 245
Sarapuu, R., see R. Kaarli 86 (1991) 211
Sargsjan, G., U. Stamm, C. Unger, W. Zschocke and M. Ledig, Characteristics of a neodymium-doped fiber laser mode-locked with a linear external cavity 86 (1991) 480
Schnürer, M., see P. Glas 86 (1991) 271
Schuller, F., M.J.D. Macpherson, D.N. Stacey, R.B. Warrington and K.P. Zetie, The Voigt effect in a dilute atomic vapour 86 (1991) 123

Schumacher, E., see M. Wilkens 86 (1991) 34
Scoles, G., see D.C. Hovde 86 (1991) 294
Scully, M.O., see L.M. Narducci 86 (1991) 324
Shaban, A.A., see M.A. Gondal 86 (1991) 128
Shabat, M.M., see A.D. Boardman 86 (1991) 416
Shahdin, S., see M.A. Gondal 86 (1991) 128
Shamir, J., see H.J. Caulfield 86 (1991) 487
Shepherd, D.P., see S.J. Field 86 (1991) 161
Shih, Y.H., see H.Y. Zhang 86 (1991) 509
Sibbett, W., see R.S. Grant 86 (1991) 177
Smart, R.G., J.N. Carter, A.C. Tropper, D.C. Hanna, S.T. Davey, S.F. Carter and D. Szebesta, CW room temperature operation of praseodymium-doped fluorozirconate glass fibre lasers in the blue-green, green and red spectral regions 86 (1991) 333
Sõnajalg, H., see R. Kaarli 86 (1991) 211
Soutar, C., see Z.Q. Wang 86 (1991) 19
Soutar, C., C.M. Cartwright, W.A. Gillespie and Z.Q. Wang, Tracking novelty filter using transient enhancement of gratings in photorefractive BSO 86 (1991) 255
Squier, J., see F. Salin 86 (1991) 397
Stabinis, A., G. Valiulis and E.A. Ibragimov, Effective sum frequency pulse compression in nonlinear crystals 86 (1991) 301
Stacey, D.N., see F. Schuller 86 (1991) 123
Stamm, U., see H. Bergner 86 (1991) 135
Stamm, U., see G. Sargsjan 86 (1991) 480
Stedman, G.E., see Z. Li 86 (1991) 51
Stepanov, S., see I. Rossomakhin 86 (1991) 199
Stoykova, E., see M. Nenchev 86 (1991) 405
Strobl, K., see I. Golub 86 (1991) 93
Suemoto, T., see K. Tanaka 86 (1991) 45
Suter, D., Propagation of light in a $J=1/2 \leftrightarrow J'=1/2$ resonant medium 86 (1991) 381
Syms, R.R.A., see A.S. Holmes 86 (1991) 25
Szebesta, D., see R.G. Smart 86 (1991) 333

Tagliaferri, A.A., see S.G. Faria 86 (1991) 29
Tajima, T., see B. Meerson 86 (1991) 283
Tanaka, K., T. Okuno, H. Yugami, M. Ishigame and T. Suemoto, Persistent spectral hole-burning of Pr^{3+} ions in yttria stabilized zirconia: a new hole-burning material 86 (1991) 45
Tang, S.H., see H.Y. Zhang 86 (1991) 509
Tankersley, L.L., see M.D. Duncan 86 (1991) 538
Taylor, A.J., see P.K. Benicewicz 86 (1991) 393
Timmermans, J.H., see D.C. Hovde 86 (1991) 294
Torre, A., see G. Dattoli 86 (1991) 289
Townsend, P.D., see S.J. Field 86 (1991) 161
Tropper, A.C., see S.J. Field 86 (1991) 161
Tropper, A.C., see R.G. Smart 86 (1991) 333

Unger, C., see G. Sargsjan 86 (1991) 480
Uschmann, I., see P. Glas 86 (1991) 271

Vaglica, A., see G.M. Palma 86 (1991) 192
Valiulis, G., see A. Stabinis 86 (1991) 301
Vallée, R., see J.-F. Lafortune 86 (1991) 497

Wallis, R.F., see A.D. Boardman 86 (1991) 416
Wang, S., E. Bernabeu and J. Alda, Gaussian modes changed by apertured resonators analyzed by matrix methods 86 (1991) 401
Wang, Z.Q., W.A. Gillespie, C.M. Cartwright and C. Soutar, Real-time computer-aided multiplexed optical intensity correlator using Fresnel holographic filters and a liquid crystal television 86 (1991) 19
Wang, Z.Q., see C. Soutar 86 (1991) 255
Warrington, R.B., see F. Schuller 86 (1991) 123
Wild, U.P., see A. Rebane 86 (1991) 7
Wilkens, M., E. Schumacher and P. Meystre, Transition from diffraction to diffusion in the near-resonant Kapitza–Dirac effect: a numerical approach 86 (1991) 34
Will, I., see G. Korn 86 (1991) 277
Williams, S., see C. Jacobsen 86 (1991) 351
Wolffer, N., see A. Abdelghani-Idrissi 86 (1991) 317
Wood, F.K., see A.H. Chowdhury 86 (1991) 547
Wray, J.E., see W.R. Garrett 86 (1991) 205
Wu, J., see W. Du 86 (1991) 428
Wu, M., S. Zhou, J. Cai and G. Chin, Optical binary image algebra processor (OBIAP) 86 (1991) 454

Xia, S., see D. Feng 86 (1991) 260
Xiang, W., W. Jiang and Y. Ishida, Femtosecond pulses generated from non-colliding pulse mode-locked ring dye lasers 86 (1991) 70

Yang, Y., see B. Cheng 86 (1991) 465
Yugami, H., see K. Tanaka 86 (1991) 45

Zacharias, H., see F. Raksi 86 (1991) 1
Zaitsevskii, A.V. and A.I. Dement'ev, Radiative decay of the Ar_2^{2+} excimer: an ab initio study 86 (1991) 461
Zel'dovich, B.Ya., see P.N. Ilinykh 86 (1991) 75
Zetie, K.P., see F. Schuller 86 (1991) 123
Zhang, D., see B. Cheng 86 (1991) 465
Zhang, H.Y., X.H. He, Y.H. Shih and S.H. Tang, A new method for measuring the electrooptic coefficients with higher sensitivity and higher accuracy 86 (1991) 509
Zhang, L., see S.J. Field 86 (1991) 161
Zhang, X., see C. Jacobsen 86 (1991) 351
Zhang, X., see W. Du 86 (1991) 428
Zhao, H., see D. Feng 86 (1991) 260
Zheng, Y., see W. Du 86 (1991) 428
Zhivkova, S. and M. Miteva, Investigations of the characteristics of fixed holograms in $Bi_{12}TiO_{20}$ photorefractive crystals 86 (1991) 449
Zhou, S., see M. Wu 86 (1991) 454
Zhu, J., see B. Cheng 86 (1991) 465

Zhu, S.-Y., see L.M. Narducci 86 (1991) 324
Zilio, S.C., J.C. Penaforte, E.A. Gouveia and M.J.V. Bell, Nearly degenerate two-wave mixing in saturable absorbers 86 (1991) 81
Zschocke, W., see G. Sargsjan 86 (1991) 480

Optics Communications 86 (1991) 565–569
North-Holland

OPTICS
COMMUNICATIONS

Subject Index to Volume 86

Propagation and transmission in homogeneous media

Single pulse pump-and-probe measurements and a new single pulse autocorrelator, F. Raksi, W. Heuer and H. Zacharias 86 (1991) 1
Periodic structures of optical mutual coherence function and effective spectal source for acoustically modulated optical fields, Y. Ohtsuka 86 (1991) 437
A dielectric/metal layer system as chemical sensor, H.E. de Bruijn, A.T.M. Lenferink, R.P.H. Kooyman and J. Greve 86 (1991) 444

Optical information, image formation and analysis, optical computing

Holography in frequency selective media: hologram phase and causality, A. Rebane, S. Bernet, A. Renn and U.P. Wild 86 (1991) 7
Gabor's signal expansion applied to partially coherent light, M.J. Bastiaans 86 (1991) 14
Real-time computer-aided multiplexed optical intensity correlator using Fresnel holographic filters and a liquid crystal television, Z.Q. Wang, W.A. Gillespie, C.M. Cartwright and C. Soutar 86 (1991) 19
Switchable all-optical encoding and decoding using optical fibre lattices, A.S. Holmes and R.R.A. Syms 86 (1991) 25
Photorefractive optical holographic correlation using a $Bi_{12}TiO_{20}$ crystal at $\lambda = 0.633$ μm, S.G. Faria, A.A. Tagliaferri and P.A.M. dos Santos 86 (1991) 29
A high power lamp-pumped LNA laser with thermally tuned etalon, C.G. Aminoff, S. Essabaa, I. Brissaud and J. Arianer 86 (1991) 99
Velocity filtering using complementary gratings in photorefractive BSO, G. Hussain and R.W. Eason 86 (1991) 106
Optical pattern recognition: optimal trade-off circular harmonic filters, Ph. Refregier 86 (1991) 113
Interference of accumulated stimulated photon echoes and storage of temporal segments in time-and-space-domain holography, R. Kaarli, R. Sarapuu, H. Sõnajalg and P. Saari 86 (1991) 211
Image reconstruction through multiple scattering media, I. Freund 86 (1991) 216
New possibilities for efficient silicon integrated electro-optical modulators, G. Cocorullo, F. Della Corte, I. Rendina and A. Cutolo 86 (1991) 228
Tracking novelty filter using transient enhancement of gratings in photorefractive BSO, C. Soutar, C.M. Cartwright, W.A. Gillespie and Z.Q. Wang 86 (1991) 255
Amplitude-modulated JTC for improving correlation discrimination, D. Feng, H. Zhao and S. Xia 86 (1991) 260
Image recovery by simulated annealing with known Fourier modulus, J. Ohtsubo and K. Nakajima 86 (1991) 265
Image formation of dilute arrays for optical information processing, A.W. Lohmann 86 (1991) 365
Investigations of the characteristics of fixed holograms in $Bi_{12}TiO_{20}$ photorefractive crystals, S. Zhivkova and M. Miteva 86 (1991) 449

Optical binary image algebra processor (OBIAP), M. Wu, S. Zhou, J. Cai and G. Chin 86 (1991) 454
Application of LCTV to nonlinear speckle correlator, A. Ogiwara, H. Sakai and J. Ohtsubo 86 (1991) 513

Optical communications

New possibilities for efficient silicon integrated electro-optical modulators, G. Cocorullo, F. Della Corte, I. Rendina and A. Cutolo 86 (1991) 228
Solutions of the dynamical equation for polarization dispersion, N. Gisin 86 (1991) 371
Parametrical study of dispersionless modulation gain in low birefringence fibers, T.P. Mirtchev and N.I. Minkovski 86 (1991) 374
H:$LiNbO_3$ waveguides: effects of annealing, V.A. Ganshin and Yu.N. Korkishko 86 (1991) 523

Atomic and molecular physics

Transition from diffraction to diffusion in the near-resonant Kapitza–Dirac effect: a numerical approach, M. Wilkens, E. Schumacher and P. Meystre 86 (1991) 34
A quantum state of ultra-low phase noise, J.P. Dowling 86 (1991) 119
The Voigt effect in a dilute atomic vapour, F. Schuller, M.J.D. Macpherson, D.N. Stacey, R.B. Warrington and K.P. Zetie 86 (1991) 123
First observation of a collisionally induced diffuse band of $^7Li_2$ around 452 nm, M.A. Gondal, S. Shahdin, A.A. Shaban and M.S. Omar 86 (1991) 128
Separation of nuclear and electronic contributions to femtosecond four-wave mixing data, D. McMorrow 86 (1991) 236
Propagation of light in a $J=1/2 \leftrightarrow J'=1/2$ resonant medium, D. Suter 86 (1991) 381
Quasi-cw laser action through pulsed laser pumping of metastable states in dense vapors, M.A. Khan and E.E. Khawaja 86 (1991) 386
Radiative decay of the Ar_2^{2+} excimer: an ab initio study, A.V. Zaitsevskii and A.I. Dement'ev 86 (1991) 461
Collisional pooling of metastable Zn atoms, B. Cheng, Z. Li, Y. Yang, J. Zhu and D. Zhang 86 (1991) 465
The transient fluorescence spectrum of a strongly driven two-atom Dicke model including dipole interaction in a squeezed vacuum, A. Joshi and R.R. Puri 86 (1991) 469
Realistic laser cooling theory for multi-state atoms, J. Javanainen 86 (1991) 475

Condensed matter

Ultrafast lattice vibrational relaxation of optically excited F-centers in RbCl at 4.2 K, Y.B. Chung, I.W. Lee and D.-J. Jang 86 (1991) 41
Persistent spectral hole-burning of Pr^{3+} ions in yttria stabilized zirconia: a new hole-burning material, K. Tanaka, T. Okuno, H. Yugami, M. Ishigame and T. Suemoto 86 (1991) 45
Picosecond excite and probe optical beam induced current method for investigation of high speed integrated circuits, H. Bergner, K. Hempel and U. Stamm 86 (1991) 135
Surface polarization dynamics revealed by time-resolved resonant reflection of light, I. Reimand and J. Aaviksoo 86 (1991) 142
The absorption characteristics and recovery dynamics of the tricarbocyanine dye DTP, P.K. Benicewicz, J.P. Roberts and A.J. Taylor 86 (1991) 393
Some considerations on the size dependence of optical properties of solids and aggregates, D. Ricard, F. Hache and M.C. Klein 86 (1991) 531

Plasmas

X-ray microscopy of laser produced counterstreaming plasmas – investigation of population inversion in [He]-like Al, P. Glas, M. Schnürer, E. Förster and I. Uschmann 86 (1991) 271

Lasers

Swept-frequency induced optical cavity ringing, Z. Li, R.G.T. Bennett and G.E. Stedman 86 (1991) 51
Generation of intense picosecond pulses tunable between 1.2 and 8.7 μm, H.J. Bakker, J.T.M. Kennis, H.J. Kop and A. Lagendijk 86 (1991) 58
Generation of tunable femtosecond pulses in the 690–750 nm wavelength region, C.H. Brito Cruz, A.G. Prosser and P.C. Becker 86 (1991) 65
Squeezing and bifurcation in the phase probability distribution in a two-photon micromaser, M. Orszag, L. Roa and R. Ramírez 86 (1991) 147
Fluorescence emissions of rare-gas–alkali ionic excimers in electrical discharges, D. Lo and J.L. Lawless 86 (1991) 151
Beam reshaping and self-mode-locking in nonlinear laser resonators, M. Piché 86 (1991) 156
An efficient, diode-pumped, ion-implanted Nd:GGG planar waveguide laser, S.J. Field, D.C. Hanna, A.C. Large, D.P. Shepherd, A.C. Tropper, P.J. Chandler, P.D. Townsend and L. Zhang 86 (1991) 161
Guiding properties of infrared circular hollow waveguides for CO_2 lasers, M. Khelkhal and F. Herlemont 86 (1991) 167
Doubly nonlinear fibre loop lasers, P.E. Langridge and W.J. Firth 86 (1991) 170
Cavity configurations for coupled-cavity mode locking, R.S. Grant and W. Sibbett 86 (1991) 177
Generation of subpicosecond pulses by feedback control and frequency tuning of an actively-passively mode-locked Nd-glass laser, G. Korn, F. Billhardt, M.P. Kalashnikov, P.V. Nickles and I. Will 86 (1991) 277
A mesoscopic linear accelerator driven by super-intense subpicosecond laser pulses, B. Meerson and T. Tajima 86 (1991) 283
Towards a generalized version of the Madey's theorem, G. Dattoli, L. Giannessi, L. Mezi and A. Torre 86 (1991) 289
Physical origin of the gain in a four-level model of a Raman driven laser without inversion, L.M. Narducci, M.O. Scully, C.H. Keitel, S.-Y. Zhu and H.M. Doss 86 (1991) 324
CW room temperature operation of praseodymium-doped fluorozirconate glass fibre lasers in the blue-green, green and red spectral regions, R.G. Smart, J.N. Carter, A.C. Tropper, D.C. Hanna, S.T. Davey, S.F. Carter and D. Szebesta 86 (1991) 333
Quasi-cw laser action through pulsed laser pumping of metastable states in dense vapors, M.A. Khan and E.E. Khawaja 86 (1991) 386
Geometrical optimization of longitudinally pumped solid-state lasers, F. Salin and J. Squier 86 (1991) 397
Gaussian modes changed by apertured resonators analyzed by matrix methods, S. Wang, E. Bernabeu and J. Alda 86 (1991) 401
Controlled time-delayed-pulses operation of a two-wavelength combined dye-Ti:Al_2O_3 laser, M. Nenchev, A. Deleva, E. Stoykova, Z. Peshev, T. Patrikov and A. Gizbrekht 86 (1991) 405
Light amplification by coherence effects – a double resonance model for lasers without inversion, G. Bhanu Prasad and G.S. Agarwal 86 (1991) 409
Characteristics of a neodymium-doped fiber laser mode-locked with a linear external cavity, G. Sargsjan, U. Stamm, C. Unger, W. Zschocke and M. Ledig 86 (1991) 480

Wide field of view transmission holography, H.J. Caulfield, Q. Huang and J. Shamir 86 (1991) 487
The possibility of unidirectional generation in a ring laser without nonreciprocal elements, A.A. Betin, K.V. Ergakov and O.V. Mitropol'sky 86 (1991) 491

Nonlinear optics

Femtosecond pulses generated from non-colliding pulse mode-locked ring dye lasers, W. Xiang, W. Jiang and Y. Ishida 86 (1991) 70
Nondegenerate photorefractive four-wave mixing without feedback in $Bi_{12}TiO_{20}$, P.N. Ilinykh, O.P. Nestiorkin and B.Ya. Zel'dovich 86 (1991) 75
Nearly degenerate two-wave mixing in saturable absorbers, S.C. Zilio, J.C. Penaforte, E.A. Gouveia and M.J.V. Bell 86 (1991) 81
Co-existing attractors in two-photon absorptive optical bistability, N.P. Pettiaux and P. Mandel 86 (1991) 88
Spatio-temporal analysis of a Nonlinear Sandwich's switching behavior, I. Golub and K. Strobl 86 (1991) 93
Scaling law for the dynamics of induced absorptive optical nonlinearities, J. Grohs, H. Ißler and C. Klingshirn 86 (1991) 183
All-optical set-reset flip-flop operation in the nonlinear Fabry-Pérot interferometer, M. Haelterman 86 (1991) 189
Squeezed triggering of superradiant beats, G.M. Palma, A. Vaglica, C. Leonardi and A.K. Ekert 86 (1991) 192
Linear adaptive interferometers via diffusion recording in cubic photorefractive crystals, I. Rossomakhin and S. Stepanov 86 (1991) 199
Large spectral shifts of stimulated hyper-Raman scattering: predictions and observations in Xe, W.R. Garrett, R.C. Hart, J.C. Miller, M.G. Payne and J.E. Wray 86 (1991) 205
Interference of accumulated stimulated photon echoes and storage of temporal segments in time-and-space-domain holography, R. Kaarli, R. Sarapuu, H. Sõnajalg and P. Saari 86 (1991) 211
High power injection seeded optical parametric oscillator, D.C. Hovde, J.H. Timmermans, G. Scoles and K.K. Lehmann 86 (1991) 294
Effective sum frequency pulse compression in nonlinear crystals, A. Stabinis, G. Valiulis and E.A. Ibragimov 86 (1991) 301
Transverse beam reshaping and beam encoding by two-beam coupling in ruby, R.S. Afzal and N.M. Lawandy 86 (1991) 307
Quantum spatial propagation of squeezed light in a degenerate parametric amplifier, I.H. Deutsch and J.C. Garrison 86 (1991) 311
Resonant behaviour of the temporal response of the two-wave mixing in photorefractive InP:Fe crystals under dc fields, A. Abdelghani-Idrissi, C. Ozkul, N. Wolffer, P. Gravey and G. Picoli 86 (1991) 317
Phase conjugation in long pulse CO_2 lasers, E.K. Gorton and A.M. Richmond 86 (1991) 341
Nonlinear surface magnetoplasmon waves on a semiconductor, A.D. Boardman, M.M. Shabat and R.F. Wallis 86 (1991) 416
Photon statistics in *N*-harmonic generation under nonlinear optical balance, Yu.P. Malakyan 86 (1991) 423
Multiple forward phase conjugate waves by degenerate four-wave-mixing in Langmuir–Blodgett films with BOXCARS geometry, W. Du, X. Zhang, K. Chen, Z. Lu, Y. Zheng and J. Wu 86 (1991) 428
Fast and slow Raman shock-wave domains in nonlinear media, D.N. Christodoulides 86 (1991) 431

Short length fiber Faraday rotator, J.-F. Lafortune and R. Vallée 86 (1991) 497
Intracavity resonance hyper-Raman scattering with a synchronously pumped mode-locked dye laser, C.C. Bonang and S.M. Cameron 86 (1991) 504
A new method for measuring the electrooptic coefficients with higher sensitivity and higher accuracy, H.Y. Zhang, X.H. He, Y.H. Shih and S.H. Tang 86 (1991) 509
Second Stokes generation in deuterium and hydrogen, M.D. Duncan, R. Mahon, L.L. Tankersley and J. Reintjes 86 (1991) 538
Transverse radiation pressure forces for finite sized colloidal particles, A.H. Chowdhury, F.K. Wood and B.J. Ackerson 86 (1991) 547

X-ray optics and applications

Diffraction and scattering by lamellar amplitude multilayer gratings in the X-UV region, A. Sammar, J.-M. André and B. Pardo 86 (1991) 245
Diffraction-limited imaging in a scanning transmission X-ray microscopy, C. Jacobsen, S. Williams, E. Anderson, M.T. Browne, C.J. Buckley, D. Kern, J. Kirz, M. Rivers and X. Zhang 86 (1991) 351